

# GUIDE TO PRODUCT OPTIONS

The table below specifies the options available in our Product Range with guidance on applications.

- FIRST CHOOSE THE PRODUCT YOU REQUIRE
- NEXT SELECT THE MATERIAL
- THEN SELECT FROM THE RANGE OF SIZES, FASTENER LENGTHS AND BASE DIAMETERS

Fastener type		
Stud	Male threaded fastener.	
Standoff	Female threaded fastener. The fastener is 'blind', i.e. the hole does not go all the way through the fastener. Through ('sighted') option also available.	
Base plate	Base plates enable installation of a conduit or fixing into structures such as bulkheads. They dissipate stresses from the conduit or fixing across a structure. They are bonded on or inserted into a mould. Our standard products come with a base. Bases can be ordered separately, contact us for information.	
Material		
Stainless steel	This is a marine grade stainless steel called 316L that is highly resistant to corrosion. It contains additional molybdenum providing enhanced resistance to corrosion and it's low carbon content offers additional resistant to grain boundary carbide precipitation. Additionally its non magnetic austenitic structure gives excellent toughness particularly at cryogenic temperatures.	
Mild steel	Our high tensile carbon steel products are made from Manganese Boron (20MnB4.) This is a premium steel ideal for fasteners as characterised by its consistent mechanical properties, homogeneous structure, minimal dimensional tolerances and it's ease of use in cold forging and welding without cracking or necking. The 35mm and 53mm bases of our carbon steel fasteners are made from CR4 which is ideal for progression pressing.	
Diameter		
M4	All threads are metric, measured at the major diameter as per ISO 261. The thread pitch of all our threads is Coarse (metric).	Lightweight applications e.g. attaching ancillary structures.*
M6		
M8		Moderate load application.*
M10		Heavyweight applications e.g. connecting body structures.*
M12		
<i>*Dependant on other options such as material, base size, AdMax, heat treatment etc</i>		
(Stud) Length		
20mm	All stud lengths are measured from the head of the fastener to the end of the thread. If you add a 35mm or 53mm base to your fixing the available length of thread is decreased by 1.4mm or 1.8mm respectively.	
30mm		
50mm		
60mm		

<b>Base</b>	
<i>Not all bases are available with all fasteners; larger diameter fasteners require larger bases.</i>	
11mm	<b>Compact &amp; effective:</b> The 11mm, 18mm and 23mm (round) bases are formed directly onto the same piece of metal as the fastener and are the smallest base option we offer. They are designed to be bonded with small quantities of Adhesive. With their concave shape and AdMax treatment these compact fixings can outperform larger flat bottomed fixings at a fraction of their cost and weight.
18mm	
23mm	
35mm	<b>The ultimate Spida Fixing:</b> These larger bases have our unique anti-torsion shape and are concave making them the ultimate base for moulding and bonding with exothermic adhesives such as epoxy.
53mm	
<b>Hole diameter (on base plate)</b>	
5mm	Fits an M4 stud*
7.1mm	Fits an M6 stud*
9.2mm	Fits an M8 stud or an M4 standoff*
11.1mm	Fits an M10 stud or an M6 standoff*
13.3mm	Fits an M12 stud or an M8 standoff*
18.3mm	Fits an M10 or M12 standoff*
<i>*Fits Spida studs and standoffs. Other fasteners such as bolts may not fit dependant on pocket diameter and/or method of installation. Check the engineering diagrams (available on request) and see our installation guides for further information.</i>	
<b>AdMax™ Our standard range comes with Admax top and bottom Contact us for bespoke options</b>	
None	Only advised for fixings to be welded
AdMax on bottom surface only	Ideal for fixings to be bonded with adhesive. Leaves a shiny surface finish on the top of the base that may be in view to the customer (vanity feature).
AdMax on top and bottom	Ideal for encapsulated fixings such as those put into a mould or laminated over.
<b>Passivation (stainless steel only).</b> Included on our Standard range. Contact us for customised options.	
None	Only advised for fixings to be welded.
Passivated	Improves corrosion resistance.
<b>Heat treatment (carbon steel only) Included on our Standard range. Contact us for customised options.</b>	
None	Only advised for fixings to be welded.
ISO property class 8.8	Increases a fixing's tensile strength and hardness
<b>Plating (carbon steel only) Zinc Nickel plating on all standard ranges. Contact us for customised options</b>	
None	Only advised for fixings to be welded.
Zinc-nickel plating	Ultimate corrosion resistance. This forms an 8 micron layer that provides corrosion resistance of 768 hours to red rust.